

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims.

1. (currently amended) A scaffolded fusion polypeptide comprising one or more modules, each module comprising a functional polypeptide domain fused to a scaffold domain, wherein the functional polypeptide domain corresponds to a soluble loop of an integral membrane protein.

2. (currently amended) The scaffolded fusion polypeptide of claim 1 ~~A polymeric scaffolded fusion polypeptide comprising a plurality of said modules functional polypeptide domains wherein, each functional polypeptide domain corresponds to a soluble loop of an integral membrane protein and is fused to a scaffold domain.~~

3. (currently amended) The scaffolded fusion polypeptide according to claim 1 comprising a ~~wherein the~~ scaffold domain which is a metal chelating motif.

4. (original) The scaffolded fusion polypeptide according to claim 3 wherein the metal chelating motif is capable of chelating a zinc ion.

5. (currently amended) The scaffolded fusion polypeptide of claim 4 wherein the metal chelating motif comprises an amino acid sequence selected from the group consisting of: a sequence of amino acids corresponding to SEQ ID NO:3 and a sequence of amino acids corresponding to SEQ ID NO:4.

- (a) the amino acid sequence of SEQ ID NO:3;
- (b) the amino acid sequence of SEQ ID NO:4;
- (b) the amino acid sequence of SEQ ID NO:5;
- (c) the amino acid sequence of SEQ ID NO:6; and
- (d) the amino acid sequence of SEQ ID NO:7.

6. (original) The scaffolded fusion polypeptide of claim 2 in which a first scaffold domain is linked to a second scaffold domain via a polypeptide linker.

7. (original) The scaffolded fusion polypeptide of claim 2 which corresponds to an extracellular domain of a naturally occurring receptor.

8. (original) The scaffolded fusion polypeptide of claim 7 which corresponds to the extracellular domain of CCR5.

9. (currently amended) The scaffolded fusion polypeptide of claim 2 A polypeptide comprising the amino acid sequence of SEQ ID NO:6 10.

10. (original) A nucleic acid encoding the scaffolded fusion polypeptide of claim 1.

11-16. (canceled)

17. (currently amended) A ~~The~~ polypeptide produced by ~~the~~ a method of claim ~~16~~ comprising:

- (a) expressing from a host cell the polypeptide of claim 1; and
- (b) recovering said polypeptide.

18. (original) A method of screening molecules that bind a scaffolded fusion polypeptide comprising:

- (a) expressing from a host cell the polypeptide of claim 1; and
- (b) identifying a molecule that binds to the polypeptide.

19-21. (canceled)

22. (new) The scaffolded fusion polypeptide of claim 1 comprising a single said module.

23. (new) The scaffolded fusion polypeptide of claim 4 wherein the metal chelating motif comprises amino acid sequences selected from the group consisting of:

- (a) the amino acids sequences of SEQ ID NO:4 and SEQ ID NO:5; and
- (b) the amino acids sequences of SEQ ID NO:6 and SEQ ID NO:7.

24. (new) The scaffolded fusion polypeptide of claim 6 wherein said linker comprises an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:8;
- (b) the amino acid sequence of SEQ ID NO:15; and
- (c) the amino acid sequence of SEQ ID NO:16.

25. (new) The scaffolded fusion polypeptide of claim 9 comprising the amino acid sequence of SEQ ID NO:31